

ORIGINAL

SCHEDULE OF RATES AND CHARGES
TOGETHER WITH RULES AND REGULATIONS
APPLICABLE TO TELEPHONE SERVICE
PROVIDED IN THE TERRITORY SERVED BY
ACCIPITER COMMUNICATIONS, INC.
WITHIN THE STATE OF ARIZONA AS FOLLOWS:

ISSUED:

EFFECTIVE: 10/11/95

BY: ACCIPITER COMMUNICATIONS. INC.

APPROVED FOR FILING
DECISION #: 59346

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ACCIPITER COMMUNICATIONS, INC.
SPECIAL ACCESS SERVICE TARIFF
ARIZONA

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1. Special Access Service

1.1 General

Special Access Service provides a transmission path to customer designated premises, directly, through an **ACI CO** or **COs** where bridging or multiplexing services are performed, or to connect a customer designated premises and a WATS Servicing Office. Special Access Service includes all exchange access not utilizing **ACI** end office switching capability.

The connections provided by Special Access Service can be either analog or digital. Analog connections **are** differentiated by spectrum or bandwidth. Digital connections are differentiated by bit rate.

1.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more the of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of those available transmission parameters and channel interfaces that they desire in order to meet specific communications requirements.

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this Tariff, there is no restriction against doing so.

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Following is a brief description of each channel type:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3500 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or from 50 to 15000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56 kbps.

High Capacity - a channel for the transmission of asynchronous serial data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

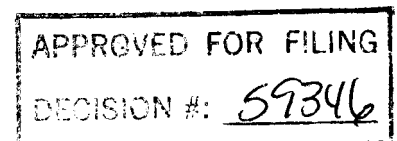
Detailed descriptions of each of the channel types are provided in 1.4 through 1.10 following.

The customer also has the option of ordering Voice Grade or High Capacity facilities (i.e., 1.544, 3.152, 6.312, 44.736, and 274.176 Mbps) to ACI COs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 1.6 and 1.10 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the option features and functions available are set forth in 1.2.1 following.

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For example, a customer may order a 3.152 Mbps High Capacity channel from a customer designated premises to a **ACI** CO for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

1.1.2 Service Descriptions

For the purposes of ordering there are seven categories of Special Access Service. These are:

	<u>Service Designator Codes</u>
Metallic	MT
Telegraph Grade	T G
Voice	VG
Program Audio	AP
Video	TV
Digital Data	DA
High Capacity	HC

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in National Exchange Carrier Association (**NECA**) Tariff F.C.C. No. 5, Section 15. Optional features and functions are described in this section.

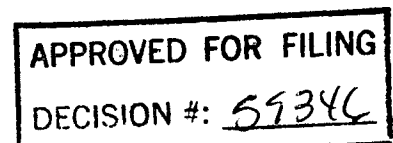
Customized technical specifications packages will be provided where technically feasible. If **ACI** determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

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The channel descriptions provided in 1.4 through 1.10 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and an **ACI CO** where bridging or multiplexing functions are performed, between hubs, or between a customer designated premises and a WATS Serving Office.

1.1.2.1 Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is available in the National Exchange Carrier Association Tariff F.C.C. No. 5, Section 15, available at the Accipiter Communications, Inc. main office.

1.1.2.2 Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in the National Exchange Carrier Tariff F.C.C. No. 5, Section 15.

1.1.2.3 Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

1.1.2.4 The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. This information is available in the National Exchange Carrier Association Tariff F.C.C. No. 5, Section 15.2.

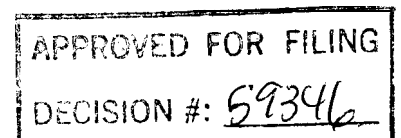
1.1.2.5 **ACI** will maintain services installed prior to ***August 21, 1987*** at their existing transmission specifications provided such performance specifications do not exceed the standards listed will be maintained at the performance levels specified in this Tariff.

1.1.2.6 All services installed after ***April 1, 1985*** will conform to the

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transmission specifications standards contained in this Tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-NPL-ooo335
	PUB 41004, Table 4
Program Audio	PUB 62503
	and associated Addendum
Video	TR-NPL ooo338
Digital Data	PUB 62507
	and associated Addendum
	PUB 62310
High Capacity	PUB 62508
	PUB 62411

1.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

1.1.3.1 Two-Point Service

A two-point service connects two customer designated premises, either on directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (**WSO**).

Applicable rate elements are:

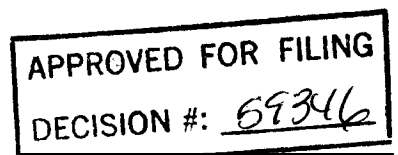
- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable).

A Special Access Surcharge, as set forth in 1.3 following, may be applicable.

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The following diagram depicts a two-point Voice Grade service connecting two Customer Designated Premises (CDP). The service is provided with C-Type conditioning.

Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage
 - 2 Channel Mileage Terminations plus 1 section,
Channel Mileage Facility per mile
- C-Type Conditioning Optional Feature

1.1.3.2 Multipoint Service

Multipoint service connects three or more customer designated premises through one or more **ACI COs**. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of **mid-links** available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

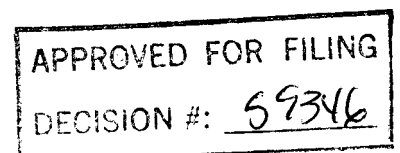
Multipoint service utilizing a customized technical specifications package, as set forth in 1.1.2 preceding, will be provided when technically possible. If **ACI** determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging CO(s). National Exchange Carrier Association Tariff F.C.C. NO. 4 identifies serving wire centers, CO (hub) locations and the type of bridging functions available.

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Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises).
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

1.1.4 Acceptance Testing

At no additional charge, **ACI** will, at the customers request, cooperatively test the following at the time of installation:

1.1.4.1 For Voice Grade analog services, the acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service.

1.1.4.2 For other analog services (i.e., Metallic, Telegraph, Program Audio, and Video) and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests applicable to the service as specified by the customer in the order for service.

1.1.5 Ordering Options and Conditions

Special Access Service is ordered under the Service Order provisions set forth in the ACI General Exchange Tariff. Also included in the General Exchange Tariff are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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1.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

1.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 1.2.1.1 following)
- Channel Mileage (described in 1.2.1.2 following)
- Optional Features and Functions (described in 1.2.1.3 following).

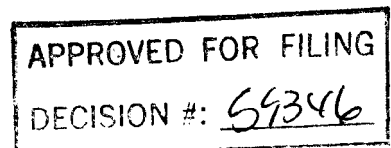
1.2.1.1 Channel Termination

The Channel Termination rate category recovers the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability is provided as an optional feature as set forth in (C) following. One Channel Termination applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a **ACI** building.

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1.2.1.2 Channel Mileage

The Channel Mileage rate category recovers the costs associated with the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

1.2.1.2.1 Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s).

1.2.1.2.2 Channel Mileage Termination

The Channel Mileage termination rate recovers the costs for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone Company Bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. If the Channel Mileage is between the wire center for a customer designated premises and a WATS serving office, the Channel Mileage Termination rate will apply at both the serving wire center associated with the customer designated premises and the WATS serving office. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

1.2.1.3 Optional Features and Functions

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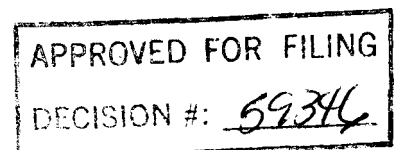
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The Optional Features and Functions rate category recovers the costs associated with optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identified with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

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Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is an **ACI** (or other Telephone Company) designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions are performed to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. National Exchange Carrier Association, Inc., Tariff F.C.C NO. 4 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 1.4 through 1.10 following.

1.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring rates. The rates and charges are described as follows:

1.2.2.1 Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes each month is considered to have 30 days.

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1.2.2.2 Daily Rates

Daily rates are recurring rates that apply to each 24 hour period that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30 day period will be charged the daily rate not to exceed the monthly rate. For each day or partial day after a consecutive 30 day period of service, a charge equal to 1/30th of the monthly rate shall apply.

1.2.2.3 Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in 2.9.1.1 following.

1.2.2.3.1 Installation of Service

Nonrecurring charges apply to each service installed. The **nonrecurring** charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination.

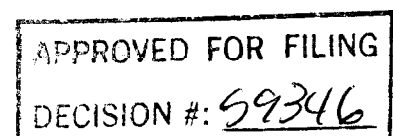
1.2.2.3.2 Installation of **Optional** Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in 2.9.1.1 following will apply per order.

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1.2.2.3.3 Service Rearrangements

Service rearrangements are changes to existing (installed) which may be administrative only in nature, as set forth following, or that involve actual physical change to service. Changes to pending orders are set forth in the National Exchange Carrier Association Tariff F.C.C. No. 5, Section 5.4.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 1.2.3 following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility does not require a change in facilities or arrangements, the change will be treated as an administrative change.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change to a customer name,
- Change of customer or customer's end user premises address when the change is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification

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- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and,
- Change of jurisdiction.

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the Channel Termination rate element will apply. The charge(s) will apply only for the location(s) being added. The charge will be in addition to an Access Order Charge set forth in 2.9.1.1 following.
- If the change involves the addition of an optional feature or function, or if the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in 2.9.1 .1 following will apply.

1.2.3 Moves

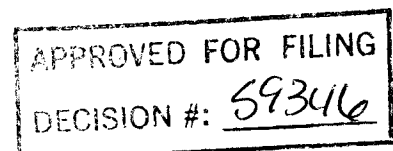
A move involves a change in the physical location of one or more of the following:

- The Point of Termination at the customer's premises, or,
- The customer's premises.

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The charges for a move are dependent on whether the move is to a new location within the same building or to a different building.

1.2.3.1 Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements. This charge is in addition to the Access Order Charge as specified in 2.9.1.1 following.

1.2.3.2 Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discounted service(s).

1.2.4 Minimum Periods

The minimum service period for all services except part-time Video and Program Audio services is one month and the full monthly rate will apply to the first month. Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period will be prorated based on a 30 day month. The minimum service period for part-time Video and Program Audio services is a continuous 24-hour period, not limited to a calendar day.

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1.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e.,

- the serving wire centers associated with the two customer designated premises,
- a serving wire center associated with a customer designated premises and a Telephone Company hub,
- two Telephone Company hubs,
- or between the serving wire center associated with a customer WATS Serving Office.

The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the National Exchange Carrier Association, Inc., Tariff F.C.C No. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the channel mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. When more than one Telephone Company is involved in the provision of service, current directives concerning Meet Point Billing will apply.

1.3 Surcharge for Special Access Service

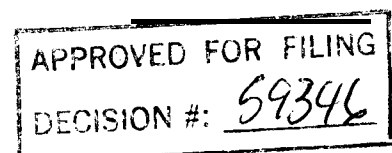
1.3.1 General

Special Access Services provided under this Tariff may be subject to the monthly Special Access Surcharge.

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1.3.2 Application

1.3.2.1 The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device, where through a function of the device, the Special Access Service connects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a CO **Centrex** switch.

1.3.2.2 Special Access Service will be exempted from the Surcharge by **ACI** upon receipt of the customer's written certification for the following Special Access Service terminations:

1.3.2.2.1 an open-end termination in a Telephone Company switch of an FX line; or

1.3.2.2.2 an analog channel termination that is used for radio or television program transmission; or

1.3.2.2.3 a termination used for TELEX service; or

1.3.2.2.4 a termination that by nature of its operating characteristic could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or

1.3.2.2.5 a termination that interconnects either directly or indirectly to the local exchange network where usage is subject to Carrier Common Line Charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or

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1.3.2.2.6 a termination that the customer certifies to **ACI** is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

1.3.3 Exemption of Special Access Service

1.3.3.1 Special Access Services which are terminated as set forth in 1.3.2.2 preceding will be exempted from the Special Access Surcharge if the customer provides **ACI** with written exemption certification. The certification may be provided to **ACI** as follows:

- at the time the Special Access Service is ordered or installed;
- at such time as the service is re-terminated to a device which does not interconnect the service to local exchange facilities; or
- at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

1.3.3.2 The exemption certificate is to be provided by the customer ordering the service. The certification must be signed by the customer or the authorized representative and include the category of exemption, as set forth in 1.3.2(B) preceding, for each termination, and the date which the exemption is effective.

1.3.3.3 The customer shall also notify **ACI** when an exempted Special Access Service is changed or re-terminated such that the exemption is no longer applicable.

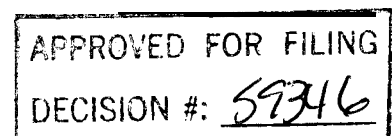
1.3.3.4 **ACI** will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, **ACI** may withhold exemption of the service until the questions are resolved.

1.3.4 Rate Regulations

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- 1.3.4.1 The surcharge will apply as set forth in 1.3.2.1 preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated in the following example:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>	<u>Surcharge</u>	<u>Monthly Charge</u>
---------------------------------------	---------------------------------------	------------------	---------------------------

DS1	24	X	\$25	=	\$600
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The preceding example illustrates the maximum number of surcharges applicable to a DS 1. If the customer claims exemption(s) as set forth in 1.3.3 preceding or, is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- 1.3.4.2 The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each intrastate Special Access Service installed unless exemption certification is provided as set forth in 1.3.3 preceding.
- 1.3.4.3 If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in 1.3.4.4 following.

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1.3.4.4 Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 1.3.3 preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

1.4 Metallic Service

1.4.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between customer designated premises and a Telephone Company CO or hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

Metallic Special Access Services are typically used for applications such as alarm, pilot wire protective relaying, and DC tripping protective relaying. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Metallic Service are as set forth in 2.2 following.

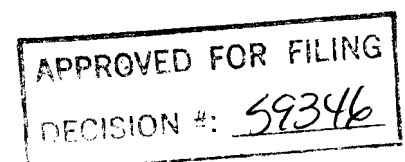
1.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (NECA) Tariff F.C.C. No. 5, Section 15.2.1(A). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(1).

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1.4.3 Optional Features and Functions

1.4.3.1 Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.

1.4.3.2 Series Bridging of up to 26 customer designated premises.

1.5 Telegraph Grade Service

1.5.1 Basic Channel Description

Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-15 baud. This channel is furnished for half-duplex or full-duplex operation. Telegraph grade channels are provided between customer designated premises or between customer designated premises and a Telephone Company CO or hub.

Telegraph Grade Special Access Services are typically used for applications such as teletypewriter, telegraph grade control/remote metering, telegraph grade channel, telegraph grade extension, and telegraph grade entrance facilities. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Telegraph Grade Service are as set forth in 2.3 following.

1.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (NECA) Tariff F.C.C No. 5, Section 15.2.1(B). Compatible network channel interfaces are described in NECA Tariff F.C.C No. 5, Section 15.2.2(C)(2).

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1.5.3 Optional Features and Functions

1.5.3.1 Telegraph Bridging (two-wire and four-wire)

1.6 Voice Grade Service

1.6.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in a nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company CO or hub, or between a customer designated premises and a WATS Serving Office (**WSO**).

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of a channel nor to imply that a channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 2.4 following.

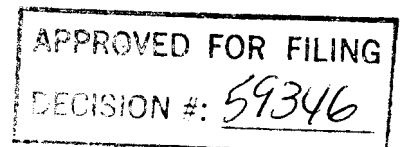
1.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (**NECA**) Tariff F.C.C. No. 5, Section 15.2.1(C). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(3).

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1.6.3 Optional Features and Functions

1.6.3.1 Central Office Bridging Capability

1.6.3.1.1 Voice Bridging (two and four-wire)

1.6.3.1.2 Data Bridging (two and four-wire)

1.6.3.1.3 Telephoto Bridging (two and four-wire)

1.6.3.1.4 DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports.

1.6.3.1.5 Telemetry and Alarm Bridging

Split Band, Active Bridging, Passive Bridging Summation, Active Bridging.

The rates for these options are set forth in 2.4.3.1 following.

1.6.3.2 Central Office Multiplexing

Voice to Telegraph-Grade. Any arrangement that converts a Voice Grade channel to Telegraph Grade channels using frequency division multiplexing.

The rate for this option is set forth in 2.4.3.5 following.

1.6.3.3 Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade Services. The rates for these options are set forth in 2.4.3 following.

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For two-point services, the parameters apply to each service as measured from end-to-end. For multipoint services, the parameters as measured on each mid-link or as measured on each end link. C-type conditioning and Data Capability may be combined on the same service. Conditioning technical characteristics are described in Technical Reference TR-NPL-000335.

1.7 Program Audio Service

1.7.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company CO or hub.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Service are as set forth in 2.5 following.

1.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (NECA) Tariff F.C.C. No. 5, Section 15.2.1(D). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(4).

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1.7.3 Optional Features and Functions

1.7.3.1 Central Office Bridging Capability

Distribution Amplifier

1.7.3.2 Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0 db \pm 0.5 db.

1.7.3.3 Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (An additional Program Audio channel must be ordered separately.)

1.8 Video Service

1.8.1 Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal may be either **duplexed** or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company CO or hub.

Rates and charges for Special Access Video Service are as set forth in 2.6 following.

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1.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (NECA) Tariff F.C.C. No. 5, Section 15.2.1(E). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(5).

The following network channel interfaces (NCIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

NCI	Audio Bandwidth	Provision
2TV6-1	15kHz	1 Channel, duplexed
2TV6-2	15kHz	2 Channels, duplexed
2TV7-1	15kHz	1 Channel, duplexed
2TV7-2	15kHz	2 Channels, duplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

1.9 Digital Data Service

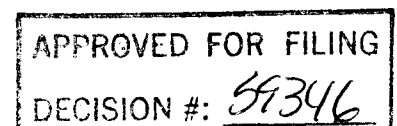
1.9.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated COs and are provided between customer designated premises or between a customer designated premises and a Telephone Company CO or Hub.

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The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to **conform** with the specifications contained in Technical Reference PUB 623 10.

Rates and charges for Special Access Digital Data Service are as set forth in 2.7 following.

1.9.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (**NECA**) Tariff F.C.C. No. 5, Section 15.2.1(F). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(6).

The following network channel interfaces (**NCIs**) define the bit rates that are available for a Digital Data channel:

<u>NCI</u>	<u>Bit Rate</u>
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-56	56.0 Kbps

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1.9.3 Optional Features and Functions

1.9.3.1 Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

1.9.3.2 Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the International Telephone and Telegraph Consultative Committee (CCITT).

1.10 High Capacity Service

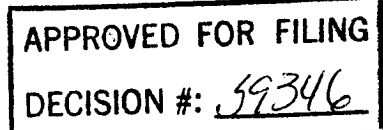
1.10.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps (clearchannel of a 1.544 Mbps system), or 1.544, 3.152, 6.132, 44.736, or 274.176 Mbps asynchronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company CO of hub.

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The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

A channel with technical specifications package **HC1** will be capable of an error-free second performance equal of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Rates and charges for Special Access High Capacity Service are as set forth in 2.8 following.

1.10.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are contained in National Exchange Carrier Association (NECA) Tariff F.C.C. No. 5, Section 15.2.1(G). Compatible network channel interfaces are described in NECA Tariff F.C.C. No. 5, Section 15.2.2(C)(7).

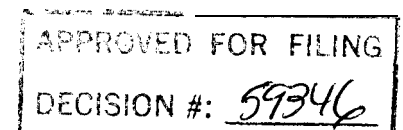
The following network channel interfaces (**NCIs**) define the bit rates that are available for a High Capacity channel:

<u>NCI</u>	<u>Bit Rate</u>
DS-15	1.544 Mbps (DS 1)
DS-27	274.176 Mbps (DS4)
DS-3 1	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.3 12 Mbps (DS2)

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1.10.3 Optional Features and Functions

1.10.3.1 Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center that serves that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as part of the option. This option requires compatible equipment at both the serving wire center and the customer's premises. The customer is responsible for providing the equipment at its premises.

1.10.3.2 Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

1.10.3.3 Central Office Multiplexing

1.10.3.3.1 DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

1.10.3.3.2 DS3 to DS1

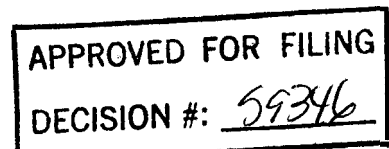
An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

1.10.3.3.3 DS2 to DS1

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An arrangement that converts a 6.3 12 Mbps channel to 4 **DS1** channels using digital time division multiplexing.

1.10.3.3.4 **DS1C to DS1**

An arrangement that converts a 3.152 Mbps channel to 2 **DS1** channels using digital time division multiplexing.

1.10.3.3s **DS 1 to Voice**

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS 1 to the CO or hub can also be used for a Digital Data Service(s).

1.10.3.3.6 **DS1 to DSQ**

An arrangement that converts a 1.544 Mbps channel to 23 64 Kbps channels using digital time division multiplexing.

1.10.3.3.7 **DS0 to Subrate**

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

1.11 **Individual Case Filings**

Certain services set forth in this Tariff are provided on an Individual Case Basis. Rates and charges for Special Access Service provided on an Individual Case Basis will be determined as required.

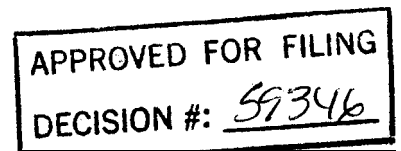
2. **Rates and Charges**

2.1 **Surcharge for Special Access Service**

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	<u>Monthly Rate</u>	<u>Tariff Section Reference</u>
▪ Per Voice Grade Equivalent	\$25.00	1.3

2.2 Metallic Service

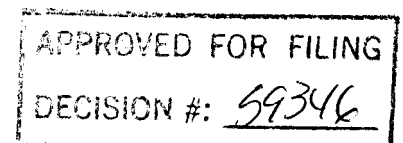
Regulations concerning Metallic Service are set forth in 1.4 preceding.

	<u>Monthly R a t e</u>	<u>Nonrecurring Charge</u>
2.2.1 <u>Channel Termination</u> (per termination)	\$4.42	\$50.00
2.2.2 <u>Channel Mileage</u>		
2.2.2.1 Channel Mileage Facility Per Mile	\$1.30	▪
2.2.2.2 Channel Mileage Termination Per Termination	\$30.00	-
2.2.3 <u>Optional Features and Functions</u>		
2.2.3.1 Bridging		
2.2.3.1.1 Three Premises Bridging Per Port	\$3.35	
2.2.3.1.2 Series Bridging Per Port	\$3.35	

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2.3 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are set forth in 1.5 preceding.

		Monthly R a t e	Nonrecurring <u>Charge</u>
2.3.1	<u>Channel Termination</u> (per termination)		
	▪ Two-wire	\$4.42	\$50.00
	▪ Four-wire	\$8.84	\$50.00
2.3.2	<u>Channel Mileage</u>		
2.3.2.1	Channel Mileage Facility Per Mile	\$1.30	▪
2.3.2.2	Channel Mileage Termination Per Termination	\$30.00	▪
2.3.3	<u>Optional Features and Functions</u>		
2.3.3.1	Telegraph Bridging Per Port		
2.3.3.1.1	Two-wire	\$3.37	▪
2.3.3.1.2	Four-wire	\$3.37	▪

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2.4 Voice Grade Service

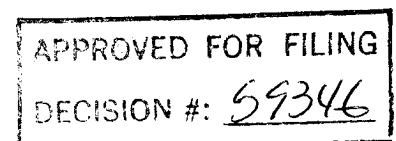
Regulations concerning Voice Grade Service are set forth in 1.6 preceding.

		Monthly R a t e	Nonrecurring Charge
2.4.1	<u>Channel Termination</u> (per termination)		
	▪ Two-wire	\$4.42	\$50.00
	- Four-wire	\$8.84	\$50.00
2.4.2	<u>Channel Mileage</u>		
2.4.2.1	Channel Mileage Facility Per Mile	\$1.30	-
2.4.2.2	Channel Mileage Termination Per Termination	\$30.00	-
2.4.3	<u>Optional Features and Functions</u>		
2.4.3.1	Bridging		
2.4.3.1.1	Voice Bridging (Per Port)		
	▪ Two-wire	\$3.37	-
	• Four-wire	\$3.37	-
2.4.3.1.2	Data Bridging (Per Port)		
	▪ Two-wire	\$3.37	-
	• Four-wire	\$3.37	-

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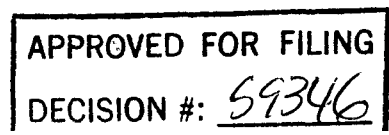
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		Monthly Rate	Nonrecurring Charge
2.4.3.1.3	Telephoto Bridging (Per Port)		
	- Two-wire	\$3.37	-
	- Four-wire	\$3.37	-
2.4.3.1.4	DATAPHONE Select-a-Station Bridging		
	Sequential Arrangement, Ports per Channel Connected		
	- Two-wire	\$24.00	-
	- Four-wire	\$128.00	-
	Addressable Arrangement, Ports per Channel Connected		
	- Two-wire	\$26.00	-
	- Four-wire	\$131.00	-
2.4.3.1.5	Telemetry and Alarm Bridging		
	Active Bridging Channel Connections Per Channel Connected		
	- Split Band	\$9.00	
	- Summation	\$3.50	
	Passive Bridging Channel Connections Per Channel Connected	\$0.25	

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2.4.3.2 Conditioning Per Termination

Monthly Nonrecurring
Rate Charge

- C Type	\$10.00	-
- Data Capability	\$2.65	-
- Telephoto Capability	\$9.75	-

2.4.3.3 Improved Return Loss for Effective
Two-wire or Four-wire
Transmission Per Termination

- Two-wire	\$6.35	-
- Four-wire	\$6.35	-

2.4.3.4 Customer Specified Receive Level
per two-wire termination

\$4.25 -

2.4.3.5 Multiplexing Per Arrangement Voice
to Telegraph Grade

\$246.00 -

2.4.3.6 Signaling Capability
per Termination

\$9.00 -

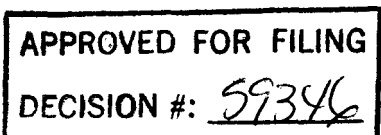
2.4.3.7 Selective Signaling Arrangement
Per Arrangement

\$6.75 -

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Monthly Nonrecurring
Charge _____

2.4.3.8 Transfer Arrangement
(Key Activated * or Dial-up **)

- | | | |
|---|--------|---|
| ▪ Per four port arrangement including control channel termination *** | \$3.40 | . |
| ▪ Per five port arrangement including control channel termination *** | \$7.75 | . |

* *The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.*

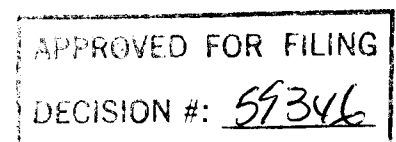
** *The Dial-up option requires the customer to purchase a Controller Arrangement.*

*** *An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.*

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2.5 Program Audio Service

Regulations concerning Program Audio Service are set forth in 1.7 preceding.

	Monthly Rate	Daily Rate
2.5.1 <u>Channel Termination</u> per Termination *		
▪ 200 to 3500 Hz	\$30.00	\$3.00
100 to 5000 Hz	\$33.75	\$3.35
50 to 8000 Hz	\$33.75	\$3.35
▪ 50 to 15000 Hz	\$33.75	\$3.35

2.5.2 Channel Mileage

2.5.2.1 Channel Mileage Facility (Per Mile)

▪ 200 to 3500 Hz	\$3.00	\$0.30
▪ 100 to 5000 Hz	\$6.00	\$0.60
50 to 8000 Hz	\$9.00	\$0.90
▪ 50 to 15000 Hz	\$12.00	\$1.20

2.5.2.2 Channel Mileage Termination per Termination

▪ 200 to 3500 Hz	\$21.75	\$2.20
▪ 100 to 5000 Hz	\$43.50	\$4.35
50 to 8000 Hz	\$63.35	\$6.50
▪ 50 to 15000 Hz	\$87.10	\$8.70

2.5.3 Optional Features and Functions

2.5.3.1 Bridging, Distribution Amplifier Per Port	\$21.70	\$2.10
2.5.3.2 Gain Conditioning per service	\$11.00	\$0.10
2.5.3.3 Stereo per service	none	none

* *The nonrecurring charge for monthly and daily services, regardless of frequency band selected, is \$121.00.*

2.6 Video Service

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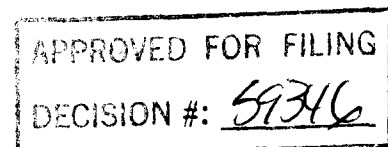
ORIGINAL SHEET 41

(TO BE DETERMINED)

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EFFECTIVE: 10/11/95

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ORIGINAL SHEET 42

2.7 Digital Data Service

Regulations concerning Digital Data Service are set forth in 1.9 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
2.7.1 <u>Channel Termination</u> Per Termination		
2.4 Kbps	\$55.70	\$241.00
4.8 Kbps	\$55.70	\$241.00
9.6 Kbps	\$55.70	\$241.00
- 56.0 Kbps	\$55.70	\$241.00

2.7.2 Channel Mileage

2.7.2.1 Channel Mileage Facility Per Mile

▪ 2.4 Kbps	\$3.00
▪ 4.8 Kbps	\$3.00
▪ 9.6 Kbps	\$3.00
▪ 56.0 Kbps	\$6.00

2.7.2.2 Channel Mileage Termination Per Termination

▪ 2.4 Kbps	\$21.75
▪ 4.8 Kbps	\$21.75
▪ 9.6 Kbps	\$21.75
▪ 56.0 Kbps	\$43.50

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2.7.3 Optional Features and Functions

	Monthly <u>R a t e</u>
2.7.3.1 Bridging Per Port	\$3.40
2.7.3.2 Loop Transfer Arrangement per Four Port Arrangement *	
Key Activated ** or Dial-Up ***	\$6.75

*** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to a customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.**

**** The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.**

***** The Dial-Up option requires the customer to purchase a Controller arrangement.**

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2.8 High Capacity Service

Regulations concerning High Capacity Service are set forth in 1.10 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
2.8.1 <u>Channel Termination Per Termination</u>		
• 1.544 Mbps	\$61.52	\$327.00
2.8.2 <u>Channel Mileage</u>		
2.8.2.1 Channel Mileage Facility Per Mile		
• 1.544 Mbps	\$66.06	
2.8.2.2 Channel Mileage Termination Per Termination	\$319.10	
2.8.3 <u>Optional Features and Functions</u>		
2.8.3.1 Multiplexing, per arrangement		
DS1 to Voice	\$182.44	
DS1 to DSO	\$115.62	
DSO to Subrates		
• Up to 20 each 2.4 Kbps services	\$511.06	
• Up to 10 each 4.8 Kbps services	\$263.41	
• Up to 5 each 9.6 Kbps services	\$183.12	

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	Monthly R a t e	Nonrecurring <u>Charge</u>
2.8.3.2 Automatic Loop Transfer Per Arrangement*	\$440.13	
2.8.3.3 Transfer Arrangement (Key Activated ** or Dial-Up ***) Per Four Port Arrangement including control channel termination *****		\$187.03

* *An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to a customer designated premises.*

** *The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.*

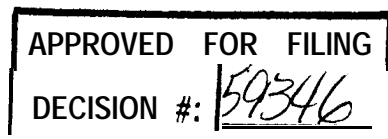
*** *The Dial-Up option requires the customer to purchase a Controller arrangement.*

**** *An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to a customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.*

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2.9 Other services

2.9.1 Access Ordering

C h a r g e

2.9.1.1 Access Order Charge

Per Order

\$89.00

2.9.1.2 Service Date Change Charge

A Service Date Change Charge will apply, on a per order occurrence basis, for each service date changed. The Access Order Charge as specified in 2.9.1.1 preceding does not apply. The applicable charge is:

Service Date Change Charge, per order

\$30.00

2.9.1.3 Design Change Charge

The Design Change Charge will apply on a per order per occurrence basis for each order requiring design change. The applicable charge is:

Design Change Charge, per order

\$30.00

2.9.1.4 Miscellaneous Service Order Charge

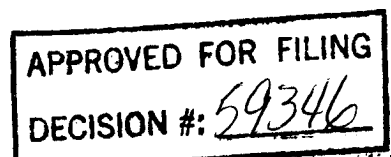
Per Occurrence

\$30.00

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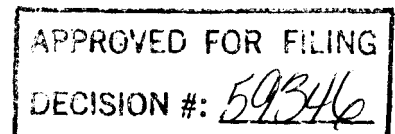
2.9.2 Additional Engineering

	<u>Additional Engineering Periods</u>	<u>Each Half Hour or Fraction Thereof</u>
2.9.2.1	Basic Time per engineer normally scheduled working hours	\$22.00
2.9.2.2	Overtime per engineer outside of normally scheduled working hours	\$32.00
2.9.2.3	Premium Time outside of scheduled work day	\$44.00

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29.3 Additional Labor

<u>Additional Labor Periods</u>	<u>Each Half Hour or Fraction Thereof</u>
2.9.3.1 Installation or Repair	
• Overtime, outside of normally scheduled working hours on a scheduled work day	\$23.00*
• Premium Time, outside of scheduled work day	\$30.00*
2.9.3.2 Stand By	
• Basic Time, normally scheduled working hours	\$16.00*
• Overtime, outside of normally scheduled working hours on a scheduled work day	\$24.00*
• Premium Time, outside of scheduled work day	\$32.00*

* *A call out **of** a ACZ employee at a time not consecutive with the employee's scheduled work **period** is subject to a minimum charge **of four** hours.*

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